

# Railway Mechanical Engineer

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Established 1832

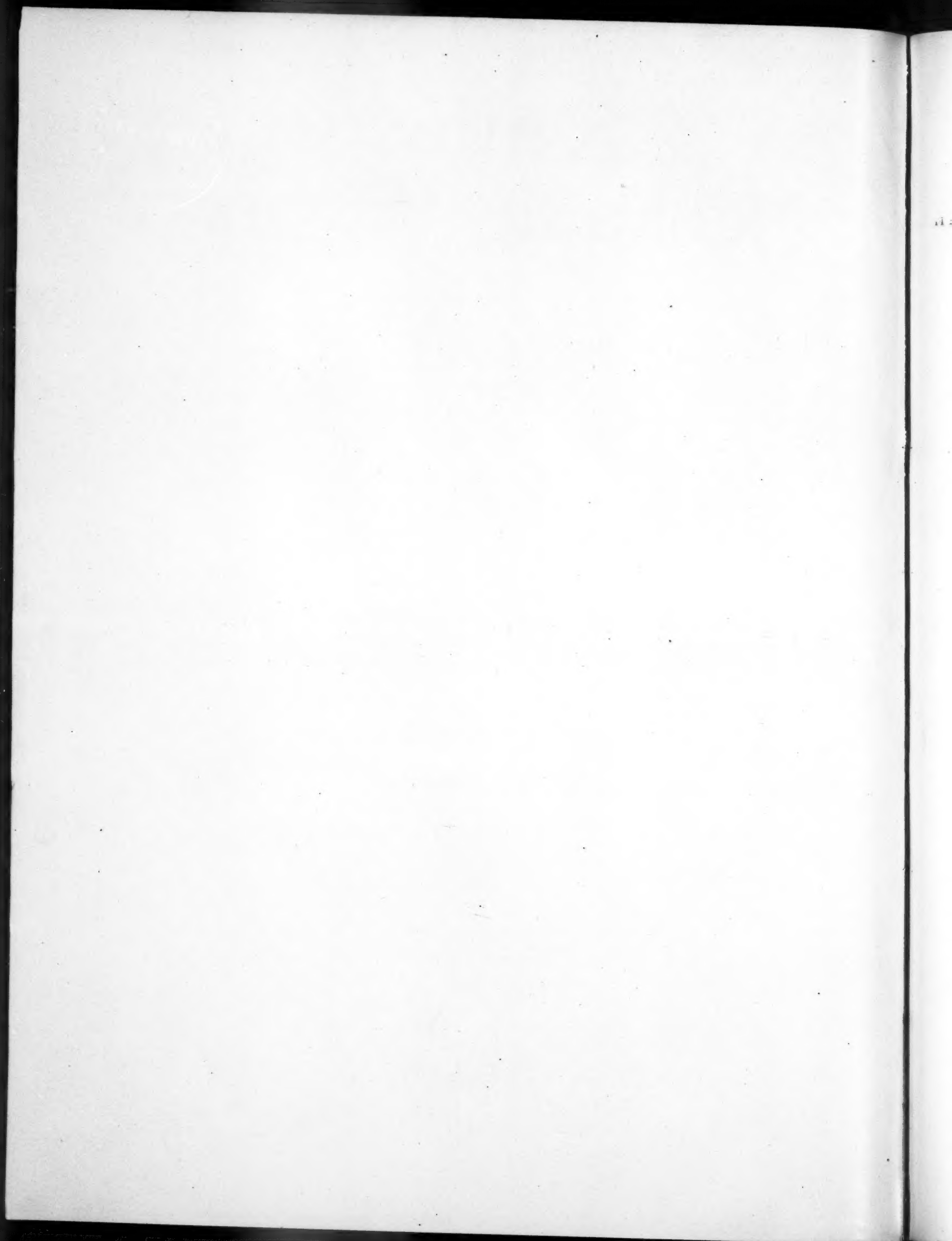
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Whiting Corp., Short-turn overhead trolley system.	597*
Wiggin, Wesley J., Interesting examples of blacksmith shop work.	703*
Williams, M. H., Manufacturing standard locomotive repair parts.	451*
Williams, M. H., Speeding up locomotive main rod repairs.	543*
Williams, M. H., Standard valve motion pins and bushings.	39*
Williams, M. H., Successful methods used in repairing side rods.	639*
Williams Tool Corp., Receding die head for pipe threading machine.	721*
Wills, H., Making a drill live up to its reputation.	249*
Wilmarth & Morman Co., Improvements in twist drill grinder.	265*
Wodack Electric Tool Corp., Portable electric drill with automatic switch.	132*
Wood, Arthur J., Insulation of passenger and refrigerator cars.	547*
Wood, The use of, in freight car construction, by H. S. Sackett.	105
Woodward & Powell Planer Co., Crank planer equipped with motor drive.	392*
Wymer, C. J., Make car owners' responsibility complete.	695

## Y

Yale & Towne Mfg. Co., Storage battery truck equipped with crane.	472*
Yazoo & Mississippi Valley, Device for spreading locomotive frames.	380*
Yocum, C. E., High pressure pump for air test rack.	118*

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Zernickow, O., Adjustable divided machine vises.	593*
Zernickow, O., Speed and feed recording device.	407*

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Beames, Capt. H. P. M.	64
Brennan, E. J.	602
Callahan, J. E.	729
Carney, J. A.	666
Cromwell, O. C.	203
Garden, J. C.	203
Goodwin, G. S.	203
Gorman, Eugene R.	63*
Hartley, W. D.	138
Hoffman, C. M.	474
Jackson, O. S.	790
Kelly, John P.	328*
Kennedy, G. C.	729
Kershner, W. P.	411
Kirkland, A. W.	666
Klein, Alfred A.	64
Machovec, E. E.	790
McCormick, D. G.	203
McKernan, M.	602
McPartland, M. B.	328
Modaff, H.	666
Nolan, J. C.	729
Preston, R.	138
Pyne, R. A.	138
Reese, O. P.	328
Roberts, John	203
Robinson, Frank S.	411
Robinson, W. L.	138
Salmon, H. W., Jr.	203
Sasser, J. W.	203
Seidel, G. C.	602

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Sevier, C. J.	203
Smith, H. B.	63
Stephens, H. H.	138
Sturrock, A.	203
Summers, E. J.	138
Temple, C. H.	138
Turner, F. S.	666
Wilcoxon, H. C.	729
Wildrick, F. D.	474
Wood, P. O.	203
Worman, H. L.	63*

## Personals-Master Mechanics and Road Foremen of Engines

Adair, C. L.	138
Allan, H. M.	270*
Allison, T.	602
Amy, H. A.	204
Bonney, H. G.	64
Carey, F. F.	204
Carr, J. E.	790
Chandler, J. W.	138
Denix, W. J.	204
Depue, G. T.	666*
Devine, A.	204
Ernststrom, G. L.	602
Fischer, F. G.	204*
Flowers, A. J.	204
Freeman, E. G.	204
George, W. A.	64
Gibbs, F. A.	328
Gibson, J.	204

## Personals-Master Mechanics and Road Foremen of Engines-Continued

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Gillispie, H. C.	64
Gould, J. E.	204
Green, W. M.	64
Hartley, W. D.	204
Hatch, M. C. M.	790*
Huffman, E. C.	411
Jones, J.	474
Keppel, J. W.	790
Knight, F. T.	790
Landis, S. L.	64
Lawler, G. M.	139*
Lemon, J. W.	64
Mailer, J. I.	533
Market, F. S.	204
McGann, C. E.	204
McSweeney, E. J.	474
Merritt, J. B.	328
Mordica, W. M.	64
Mozley, F. M.	790
Orland, B. Addison.	666
Paradise, T. E.	411
Pearson, Lee	729
Peers, Alexander	138
Ray, G. W.	204
Reynolds, C. C.	474
Rheume, R. J.	203
Roussin, T. A.	328
Schull, Eugene	204*
Small, J. W.	296*

\* Illustrated article; § editorial; † short, non-illustrated article or note; ‡ communication.



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Stuvort, J. T.	328
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Bonner, B. J.	533
Briggs, D. D.	533
Demsey, H. T.	533
Erickson, F. O.	64
Greenwell, O. J.	204
Gutteridge, J.	64
Hanchett, S. F.	533
Johnston, J. W.	64
Kanatser, J.	533
Krueger, A. J.	204, 329
Litwin, Andy J.	270*
McCullough, H. C.	533
McDonough, J.	533
Oakes, C. E.	64
Pryor, G. E.	533
Rankin, David M.	411
Rhodes, J. C.	533
Robider, W. J.	139
Sanderstrom, J. R.	602
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### Personals—Shop and Enginehouse

Abington, W. T.	204
Adams, Clarence W.	64
Bickerton, Edward	329
Birch, W. Arthur	270
Callaher, E. F.	139
Canfield, Geo.	666
Cooper, H. M.	329
Crowder, W. F.	790
Danver, W. E.	329
De Pue, G. T.	329
Detrick, R. E.	602
Eich, E. P.	729
Fletcher, L. E.	64
Garretson, John Edward	139
Gibson, J.	790
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Hambleton, A.	329
Heise, George F.	270
Hitch, C. B.	139
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Lawler, G. M.	64
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Manion, M. J.	602
McGee, Minden	329
McKenzie, J.	790
McPherson, W. G.	790
Murray, E. A.	139, 270*
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Ruick, Ernest	139
Sasser, H. W.	729
Schenck, Paul J.	411
Schmidt, H.	602
Sheppard, William John	533
Shoup, C. E.	411
Smith, B. H.	329
Stanford, Lee	411
Stone, G. M.	329
Tuck, R.	139
Wells, Harry E.	474
White, Clarence	411
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Bichlmeir, G. W.	64
Blasie, J. F.	329
Brain, B. B.	64
Buchernery, H. P.	64
Burnett, Edmund T.	139
Burr, H. S.	603
Concannon, H. W.	64
Cook, Ernest O.	474
Dearworth, C. W.	790
Dougherty, C. A.	329
Finch, J. W.	533
Fowler, J. B.	64
Goerner, G. A.	329
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Griffith, B. W.	329
Heidenrich, C. F.	329
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Keyes, M. H.	790
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McAuley, J. F.	64
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Mahaney, J. E.	411, 474
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McCarthy, J. D.	729*
Mello, A. J.	729
Nelson, R. M.	411
Osterman, F.	64
Pauling, R. H.	790
Pearce, H. C.	412*
Pinion, G. H.	533
Prentice, A. L.	329
Reaser, C. K.	603
Roesch, C. J.	603
Ross, A.	790
Sidey, W. J.	412
Singleton, A.	729
Sweeney, J. H.	729
Talbot, F. J.	729
Taylor, J. B.	329
Taylor, V. R.	64
Thomas, Gordon	603
Velasco, J. M.	790
Wharton, J. E.	270
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Collinson, James D.	790*
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Abel, W. F.	791
Acorn Refining Co.	475
Adams, C. E.	139
Air Reduction Sales Co.	65, 139, 331
Aldrich, William	534
Allegheny Steel & Tube Co.	204
Allen, W. C.	667
Allied Machinery Co. of America	533
American Arch Co.	330
American Automatic Connector Co.	475
American Brake Shoe & Foundry Co.	142
American Co.	330
American Flexible Bolt Co.	475
American Foundry Equipment Co.	65
American Machinist	665
American Malleable Castings Ass'n.	67
American Sheet & Tin Plate Co.	730
American Spiral Spring & Mfg. Co.	413
American Steel & Wire Co.	667
Armstrong Mfg. Co.	270
Atlas Valve Co.	204
Austin, W. L.	204
Automatic Coupler & Trailer Equipment Co.	413
Automatic Straight Air Brake Co.	413
Bacon, John L.	204
Baker, George	65
Baldwin Locomotive Works	66, 204, 668, 731
Barbour, Love & Woodward	533
Barco Mfg. Co.	139
Barden, George A.	730
Barrett Co.	603
Basford Co., G. M.	330
Bastian-Blessing Co.	65
Bebb, R. E.	731
Beck, George P.	204
Becker Milling Machine Co.	205
Beck-Hill Corp.	65
Bell, B. A.	204
Bell Locomotive Works	66
Bellman, R. S.	475
Bethlehem Steel Co.	330
Bethlehem Shipbuilding Corp.	667
Bettcher, Carl W.	270*
Betts Machine Co.	603
Bigelow, George S.	139
Billau, H. E.	730
Bilker, Raymond R.	412
Blackall, R. H.	667
Black, Robert D.	667
Black & Decker Mfg. Co.	65, 204, 730
Blaw-Knox Co.	730
Blecker, W. R., Jr.	475
Bloss, Will H.	534
Boe, Warren J.	330
Bole, Robert A.	331*
Bolling, Stewart	270
Bosworth, William	791
Boyd, Oliver G.	413
Bradford Draft Gear Co.	140

Brennan, E. J.	533
Brewster, Morris B.	730
Bridgman, Robert L.	413
Bridgeport Brass Co.	668
Brigham, C. F.	331
Brown & Sharpe Mfg. Co.	205
Browne, Robert L.	67
Buker, Edward	65
Burden Iron Co., Railroad and Steamship Division	476, 533
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Burkholder, C. J.	534, 730
Burwell, P. V.	65
Butler Drawbar Attachment Co.	270
Cady, P. C.	65
Caldwell & Son Co., H. W.	475
Canadian Locomotive Co.	475
Canton Foundry & Machine Co.	475
Caton, William Jordan	476
Caracristi, V. Z.	412*
Carlton, James C.	65
Carroll, Walter C.	791
Castle & Co., A. M.	271, 330, 533
Central Steel Co.	731
Chain Belt Co.	731
Chambers Valve Co.	140
Chamberlin, Charles M.	330
Charbono, F. H.	65
Chase, C. C.	731
Chicago Flexible Shaft Co.	204
Chicago Pneumatic Tool Co.	66, 140, 330
Chicago Railway Equipment Co.	668, 730*
Chicago Varnish Co.	139
Chicago Varnish Works	791*
Cincinnati Grinder Co.	331
Clark, V. D.	730
Clement, Don L.	67
Cleveland, O. D.	271
Coburn, Ralph G.	332*
Cocker, T. E.	731
Combustion Engineering Corp.	475
Commonwealth Steel Co.	271
Condit, H. K.	66
Conewango Car Co.	667
Connelly & Kendal Co.	534
Connors, Fred C.	330
Connors, J. J.	330
Conveyors Corp. of America	139, 271, 331
Cooper, Ralph S.	413
Copeland, Charles	533
Craig, Edward A.	668*
Crellin, E. W.	534
Crerar, Adams & Co.	534
Crocker-Wheeler Co.	667
Cross, C. W.	475
Cunningham, Frank H.	534
Currie, James C.	67
Curtis, F. W.	330
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Dallam, L. R.	331
Davidson, H. O.	730
Davis, J. M.	413*
De Lancey, Darragh	534
Denison, E. B.	667
Detroit Seamless Steel Tube Co.	791
Dietz, Carl F.	668*
Dodd, Theodore L.	204
Dominion Oxygen Co.	533
Down, Signey G.	730*
Dressel Mfg. Corp.	475
Dudley, S. W.	206*
Duff Mfg. Co.	65
Duffield, L. R.	476
Dunbar Mfg. Co.	66
Duncan, John	603
Dunn Co., W. T.	330
Duntley-King Pneumatic Tool Co.	413
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Du Pont de Nemours & Co., E. I.	475, 533
Du Pont, Alexis I.	475
Durant, H. S.	667
Eastern Machine Screw Corp.	270
Eckels, Wilber	413
Economy Fuse & Mfg. Co.	65
Edwards Co., O. M.	65, 603
Eggert, C. A.	65
Eissler, R. F.	140
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Electric Storage Battery Co.	791
Elliott Co.	331, 475
Ellis, Clifford J.	205*
Elvin Mechanical Stoker Co.	141, 332
Emery, E.	205*
Emery Sales Co.	205
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Englebright, E. W.	141*
English Electric Co. of Canada	667
Equitable Equipment Co.	205*
Evans, Harry M.	271
Evans, Keith J.	272
Fairbanks, Morse & Co.	476
Falls, O. E.	67
Falls Rivet Co.	66
Ferguson, H. K.	270, 412, 791
Finnell, Harry W.	413
Firth & Sons, Thos.	667
Flood, Henry, Jr.	667
Floor, E. J.	475
Floto, M. W.	667
Flynn, J. B.	331
Foot-Burt Co.	142
Foran, George Jesse	476
Forsythe, Homer I.	413
Fosdick Machine Tool Co.	331
Foster Machine Co.	475

\*Indicates photograph.

Franklin Railway Supply Co.	140, 204, 205, 330, 331, 534,	730	Manning, Henry S.	534	Ryan, Allan A.	330
Frink, O. B.		731	Manning, Maxwell & Moore	331, 413*,	Ryder, G. E.	271*
Galena Signal Oil Co.		412	Manufacturers Exhibition Co.	476		
Garvin Machine Co.		603	Marsh, Howard H.	141*	Sanderson, Richard	66*
General Motors Corp.		475	Marshall, Waldo H.	141	Sattley, E. C.	413
General Railway Devices Co.		65	Marshall & Hushart Machinery Co.	331	Sauter, F. H.	731*
Geometric Tool Co.		475	Martus, Martin L.	534	Sawyer, D. E.	141
Gerdes, Henry T.		475	Massey Concrete Products Corp.	667	Schmidt, R. H.	475
Germain, Edward B.		667	Massillon Rolling Mill Co.	731	Schoenmehl, Harold B.	534
Gibbs & Hill		731*	Master Tool Co.	475	Schumacher, T. M.	330
Gilmore, T. N.		730*	Mawby, F. J.	533	Schurich, J. F.	603
Glidden, William B.		142	McDougall-Butler Co.	667	Sederquist, James W.	731*
Glidden Co.	140, 204, 330,	603	McIntyre, F. W.	331	Seger, Charles B.	731*
Goddard & Goddard Co.		533	McLaughlin, James	331	Severin, F. G.	603
Gold Car Heating & Lighting Co.		330	McMullen, J. H.	667	Sharon Pressed Steel Co.	475
Goodwillie, E. E.		330	Mellor, C. L.	139	Sheehan, F. E.	331
Gould Coupler Co.		412	Merrell, C. B.	65	Sherritt & Stoeck	65,
Grant, Max	204, 330*,	475	Metal & Thermit Corp.	67,	Sherwin-Williams Co.	730
Graves, A. D.		140*	Metals Coating Co. of America	667	Sinkler, Joseph	140*
Gregg, M. E.		791	Midvale Steel & Ordnance Co.	205	Slater, James A.	730
Greenfield Machine Co.		475	Millholland Machine Co.	142	Slimp, J. E.	667
Greenfield Tap & Die Corp.		475	Millholland Sales & Engineering Co.	142	Smith, A. E.	65
Greenwood, Thomas H.		667	Modern Steel Casting Co.	65	Smith, Frank P.	791
Griffin Wheel Co.		791	Modern Tool Co.	330	Smith Tool & Mfg. Co., R. G.	270
Griffiths, F. J.		731	Morgan Engineering Co.	791	Snedeker, W. H.	791
Grigg, Frank N.		331	Morgan Grinder Co.	475	Southern Iron & Equipment Co.	270
			Moore, A. Clarke	603,	Southern Wheel Co.	272
Hackathorn, C. F.		331	Moore, William H.	534	Southwark Foundry & Machine Co.	270
Hallidie Machinery Co.		139	Morrow, L. C.	65	Spencer, J. Brookes	272
Hammond, Robert S.		603	Morse, Charles Hosmer	476	Standard Coupler Co.	139,
Handlan, A. H., Jr.		667	Morse, E. A.	791	Standard Paint Co.	330
Handlan-Buck Mfg. Co.		667	Morton, C. D.	66*	Standard Pressed Steel Co.	475
Handlan, E. R.		667	Morton, Harry U.	66*	Standard Steel Works Co.	66,
Handlan, E. W.		667	Morton Mfg. Co.	66,	Standard Stoker Co.	140,
Hansen, John M.		204	Motch & Merryweather Machinery Co.	331	Starrett Co., L. S.	413
Hardin, C. M.		412	Mudge & Co.	667	Steel Fabricating Corp.	475
Harrington, Robinson & Co.		667	Mull, Howard C.	140	Stinson, R. A.	667
Hartley, W. A.		413	Murray & Flood	667	Stiteler, N. C.	668
Hartman, Bruce		66	Murray, William S.	667	Stone Franklin Co.	330
Hatch, Ralph T.		330			Stowell Co.	667
Hauck Mfg. Co.		475	Nathan Mfg. Co.	67	Street, Clement F.	412
Heibel, Walter E.		791	National Machinery Co.	533	Strips, W. C.	475
Henderson, George R.		731	National Malleable Castings Co.	270,	Stuart, C. E.	731
Henderson, Harold G.		791	National Pressed Steel Co.	731	Sturtevant Co., B. F.	791
Heywood Brothers & Wakefield Co.		65	Naugle, H. M.	731	Sullivan, J. C.	668
Hickman Lumber Co., W. R.		331	Neilson, W. La Coste	668*	Summa, Victor M.	533
Hides, Horace C.		667	Nightingale, J.	475	Superheater Co.	271,
Highland Iron & Steel Co.		667	Noble, W. H.	331	Superior Supply Co.	730
Hill-Curtis Co.		533	Norton Co.	668	Symington Co., T. H.	603
Hobbs, C. H.		791	Novo Engine Co.	730		
Hoffstot, Henry P.		792			Teasdale, R. D.	667
Horton & Son Co., E.		330	Oatley, H. B.	271*	Terminal Engineering Co.	475
Hudson, E. E.	332,	533	O'Connor, M. J.	533	Texas Co.	331
Hultgren, David A.		667	Ogle, Robert A.	792*	Toledo Bridge & Crane Co.	66
Hutchins Car Roofing Co.		330	Ohio Wire Goods Mfg. Co.	66	Toledo Crane Co.	66,
Huvane, J. F.		66	O'Malley-Bear Valve Co.	270	Torchweld Equipment Co.	475
Hyatt Roller Bearing Co.		413,	Orton & Steinbrenner Co.	791	Torney, Harry W.	475
		475	Oshorn & Co., Samuel	66	Traendly, G. J.	475
Illinois Car & Mfg. Co.		271	Overly, Charles F.	475	Tropical Paint & Oil Co.	412
Independent Pneumatic Tool Co.	65, 270, 413,	730	Oviatt, Harry L.	270	True, C. H.	272*
Industrial Car Mfgs. Institute		412	Oxweld Acetylene Co.	533	Tube & Pipe Supply Co.	413
Inland Steel Co.		791			Tuco Products Corp.	603
Iron & Steel Products Co.		413				
Jackson, W. H.		534	Paarman, H. A.	533	Union Railway Equipment Co.	140
Jacques, H. W.		67	Page Steel & Wire Co.	414*,	Union Tank Car Co.	65
Jarvis, Chas. L.		475	Peabody Fuel Co.	791	United States Cast Iron Pipe & Fdry. Co.	791
Jewett, F. B.		534	Peck, M. E.	475	U. S. High Speed Steel & Tool Co.	139
John, Alba B.		204	Pelton Steel Co.	667	United States Metallic Packing Co.	603
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Jones & Co., B. M.	66, 330,	534	Pittsburgh Screw & Bolt Co.	271	Universal Packing & Service Co.	533
Jones, G. H.		791	Pneumatic Safety Valve Co.	66		
Jones, R. J.		413	Pollak Steel Co.	141	Vanadium Corp. of America	330
Jones & Laughlin Steel Co.		413	Poor, Fred A.	667	Vacuum Oil Co.	475
Joyce, Patrick H.		667	Porter Co., H. K.	331	Vanden Boom, G. C.	66
			Porter, H. Kirke	331*	Van Schaick, A. P.	414*
Kadie, C. H.		331	Power Equipment Co.	271	Vapor Car Heating Co.	204,
Kardos, E.		534	Pratt, H. M.	270	Verona Tool Works	140
Kearney & Trecker		667	Pratt & Lambert	67,	Viall, Ethan	66
Keller, H. G.		65	Prentiss & Co., Henry	331	Victor Tool Co.	330
Keller Pneumatic Tool Co.		413	Pressed Steel Car Co.	331,	Victory Equipment Co.	141
Kellogg, F. L.		791	Pullman Co.	413	Virginia Car Corp.	791
Kennett, Press G.		791*				
King Co., H. O.		413	Railway Equipment & Publication Co.	330	Wadsworth Electric Mfg. Co.	730
Kopf, J. C.		65	Railway Materials Co.	330	Waite, L. M.	603
Kothe, Charles A.		475	Railway Supply & Mfg. Co.	412	Walker, Edmund H.	139*
Kramer, LeRoy		603	Ralston Steel Car Co.	412	Walworth Mfg. Co.	533
Kuehner, A. T.		204	Ramsom, J. T.	413	Warnock, Harry R.	140*
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Kyte, William Archie		475	Rawlplug Co.	534	Watson, G. R.	730
			Reade Mfg. Co.	139	Weaver, Cecil W.	667
Lackawanna Steel Co.		791	Reading Steel Castings Co.	330	Weber, C. R.	139
Landis Tool Co.		330	Redding, G. H.	667	Webster & Perks Tool Co.	533
Lane, William T.		331	Redhead, J. H.	731	Western Electric Co.	204, 534,
Larsen, Lewis A.		141*	Reed-Prentice Co.	205,	Westinghouse Air Brake Co.	206, 667,
Laws, P. T.		791	Reeves, Judge F. T.	534	Westinghouse Electric & Mfg. Co.	730*
Le Blond Machine Tool Co., R. K.		331	Reilly-Peabody Fuel Co.	791	Wharton & Co., Wm.	667
Lenhart, L. A.		204	Reliance Co.	731	Whitcomb-Blaisdell Machine Tool Co.	205,
Letts, P. R.		475	Rhodes, Louis B.	204	Whiting Corp.	139,
LeVally, John R.		139	Rider, James Brown	791*	Whiting Foundry Equipment Co.	65, 66,
Levenhagen, R. W.		140	Rittenhouse, J. A.	413	Whitney, Ben L.	791
Lewis, E. R.		204	Robinson, John C.	667	Widau, W. E.	475
Liberty Car & Equipment Co.		271	Robinson, W. F.	412	Williams, Charles Haines	667
Lillis, De F.		533	Roebbing's Sons Co., John A.	475	Wilson, Robert B. M.	331
Lilly, William		331	Roebbing, Karl G.	475	Wilson, Stewart C.	66,
Lilly Varnish Co.		331	Roebbing, Col. Washington A.	475	Wilson, William C.	271
Link-Belt Co.		475	Rochl, W. J.	271*	Wine Railway Appliance Co.	791
Lima Locomotive Works		141,	Rogatchoff Co.	533,	Wolfe, E. W.	331
Lisle, M. E.		475	Rogatchoff, Theodore	667	Wolfe, William C.	667
Locomotive Feed Water Heater Co.		205	Rome Iron Mills	330	Wood, A. C.	270
Locomotive Superheater Co.	139,	205	Root, Martin J.	139	Woodworth, E. A.	603
Longworth, W. I.		331	Ross Heater & Mfg. Co.	412	Worthington Pump & Machinery Corp.	476
Lowe Brothers Co.	330, 667,	730	Roth, Edward N.	667		
Madill, Thomas		667	Rubberoid Co.	330	Young, Andrew G.	730
Malott, C. M.		331	Rushton, Kenneth	668*	Youngstown Steel Car Co.	204

\*Indicates photograph.



